

CLAIMS

1. A method for producing metal parts such as special bolts by means of cold extrusion in pressing dies, comprising a first step of cutting to size a metal blank to be modelled with predetermined dimensions, at least one step of cold pressing in a die in order to reduce one or more portions of the blank to predetermined diameters, and a step of cold pressing in a die during which a coupling key is formed on a portion of the blank, the lateral surface of the key protruding beyond the lateral surface of this portion, with respect to the longitudinal axis of the blank.
2. A method according to claim 1, characterised in that it comprises an additional step of cold pressing in a die, during which a collar and a head above the collar are formed on the blank.
3. A method according to any of the foregoing claims, characterised in that at least one portion of the blank is subjected to rolling in order to produce the threading, following the steps of cold pressing in dies.
4. A method according to any of the foregoing claims, characterised in that the blank is made from metal.
5. A method according to claim 4, characterised in that the die is made from steel or widia.
6. A metal element (20) for coupling mechanical pieces, comprising a first portion (21) with a first predetermined diameter, a second portion (24) with a second predetermined diameter larger than the first diameter, a third portion (22) with a third predetermined diameter larger than the second diameter,

in which the second portion presents a key or lug (25) whose lateral surface protrudes beyond the surface of the second portion with respect to the longitudinal axis of the metal element, characterised in that the element is produced by means of a cold extrusion method in a die according to any of the foregoing claims.

7. A metal element according to claim 6, characterised in that it also comprises a head (23) positioned above the third portion (22).
- 10 8. A metal element according to claim 6 or 7, characterised in that the first portion (21) is threaded.
9. A special bolt for the positive coupling of a blade (50) of a mowing machine to a rotating plate (60) in order to rotate the blade, characterised in that it consists of a metal element according to claim 8.